

## ABSTRACT

- 5 Methods are provided for efficient, high throughput screening of antibody libraries against proteins targets, especially membrane proteins. In particular, methods are provided for screening a fully human antibody library against membrane proteins such as HIV coreceptors in yeast. More particularly, a library of human single chain antibodies is screened against peptide fragments derived from extracellular domains of human CCR5 and high affinity monoclonal antibodies against CCR5 are selected.